AMENITY PUBLIC SCHOOL
HOLIDAY HOMEWORK
CLASS – IX (2024 - 25)

HERE'S TO A SUMMER VACATION THAT'S A TIME FOR MAKING MEMORIES, TRYING NEW THINGS, AND EMBRACING NEW EXPERIENCES THAT ENRICH YOUR LIFE.

Dear Parents and Students,

*Summer vacation is here! A time to unwind and engage in various scholastic and co-scholastic activities. Holidays are also an opportunity to learn new things and explore fresh ideas. This summer, we embark on a fascinating journey through **the interdisciplinary project**. Interdisciplinary projects are learning activities that involve multiple subjects and skills, such as Mathematics, Science, Social Science, Art, and Communication. They can help students develop deeper understanding, critical thinking, creativity, and collaboration skills. This would encourage in-depth learning, strengthen concepts and prepare ground for improved academic output. These projects will be assessed as Subject Enrichment Activity. As parents, your support is crucial. Please motivate your children to complete the assigned work to the best of their ability. Your encouragement can significantly make a huge difference to the ultimate learning outcomes of these projects.*

The students are encouraged to spend quality time by encouraging themselves in the following tasks:

- *Go out for morning walk and spend time to observe nature.*

- *Watch your mom working in the kitchen and help her to keep the house clean.*

- *Visit your grandparents, spend time with them.*

- *Plant a sapling and watch it grow.*

- *Play any sport with your parents which they played during their school days.*

- *Devote some time for reading during the summer break.*

Points to Remember:

- *The summer vacation is from **27th May to 30th June 2024.***

- *The school will reopen on **Monday 1st July 2024.***

- *The last day for the submission of the homework is **Friday 5th July 2024.***

- *Kindly adhere to the given timeline.*

- *Topic of Integrated Project - Lok Sabha Election 2024*

➢ *ENGLISH LANGUAGE AND LITERATURE (184)*

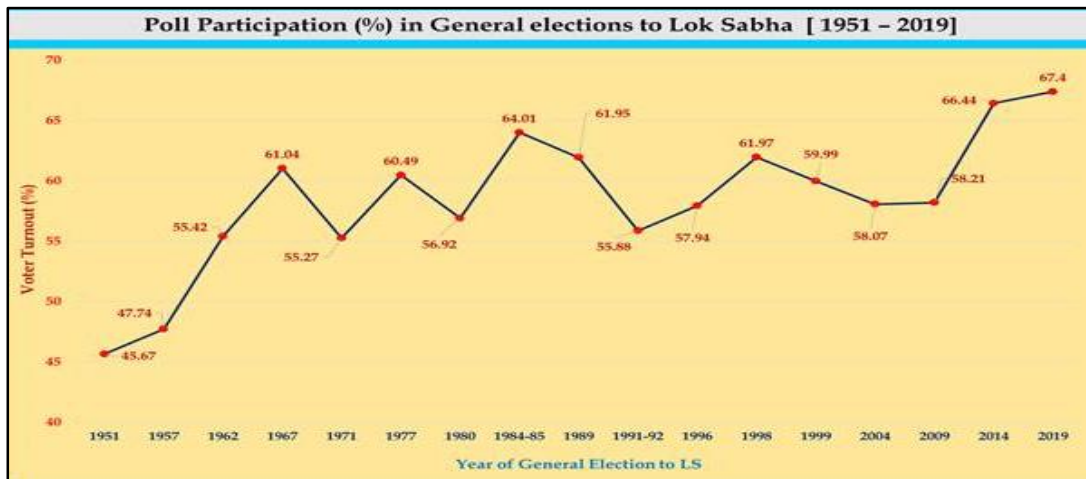1. **Addressing Low Voter Turnout:**
   In light of the diminishing voter turnout during elections, draft a **letter** to the editor of City Times discussing its adverse effects on democracy. Encourage every Indian citizen to vote upon turning 18. You can write as Suresh or Surbhi from Sector-4, Gandhi Nagar, Delhi.

2. **Captivating Polling Booth Description:**
   Craft a vivid **portrayal** (using imageries) of a polling booth scene on election day, supported by an engaging visual. Detail the atmosphere, interactions, and significance of the electoral process to captivate readers' imaginations. Also, prepare the speech for **JAM (Speaking Assessment)**.

3. **Analysis of Voter Turnout Data:**
   The line graph shows voter turnout (%) in General LS elections spanning seven decades. Analyse the data mentioning trends, fluctuations, and implications for democracy in a concise **paragraph** of 100-120 words.

Poll Participation (%) in General elections to Lok Sabha [1951 – 2019]

(click) Data source

4. **Comic Script-The Campaign Trail:**
   Imagine you're a voter witnessing the whirlwind of election season. How would you assess the humorous interactions and blunders of candidates and campaign staffers on the campaign trail? Depict it in a **comic strip** highlighting the importance of civic engagement.

➢ *HINDI (085)*

समस्त कार्य सृजनात्मक, आकर्षक और कलात्मक होना चाहिए। यह कार्य आंतरिक मूल्यांकन के आधार पर जाँचा जाएगा।

(1) निम्न संकेत बिंदु को ध्यान में रखते हुए 'लोकतंत्र एवं चुनाव' विषय पर अनुच्छेद लिखिए।
   (क) लोकतंत्र से तात्पर्य
   (ख) लोकतंत्र प्रणाली
   (ग) चुनाव का महत्त्व
   (घ) सही प्रतिनिधि का चुनाव

(2) 'आजादी का अमृत उत्सव' विषय पर एक आकर्षक विज्ञापन बनाइए।

➢ MATHEMATICS (041)

Instructions:
This project is divided into three sections. Each section involves different mathematical concepts applied is to the context of Lok Sabha elections. Complete each section by answering the questions and solving the problems provided. You may use the internet, newspapers, and textbooks as resources.

Section 1: Data Collection and Representation

Collect Data:

Research and collect data on the most recent Lok Sabha elections. Include the total number of seats, voter turnout percentages for various states, and the number of seats won by major political parties.
Data Representation:

Represent the voter turnout data for at least 10 states using a bar graph.

Section 2: Analyze Party Performance:

Questions: 1. What is the ratio of seats won by the ruling party to the total number of seats?
2. Which party has the highest proportion of seats, and what percentage do they hold?

Section 3: Vote Distribution:
In a constituency, the total number of votes cast is 120,000. The votes are divided among three major parties A, B, and C. Party B received twice as many votes as Party A, and Party C received 20,000 votes less than Party A and B combined.
Write the system of equations representing the votes distribution.
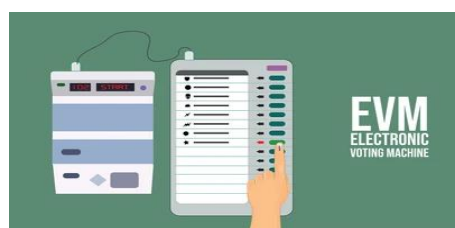Solve the equations to determine the votes received by each party.

Prepare a working model based on the concept mentioned below:
    Group 1: Coordinate Geometry
    Group 2: 3 D Shapes
    Group 3: Pythagoras Theorem
    Group 4: Area and Value
    Group 5: Algebraic Identities

➢ SCIENCE (086)

The Electronic Voting Machines (EVMs) are electronic devices used for casting and counting votes in elections. The science behind EVMS involves hardware and software engineering to ensure accuracy, security and reliability in recording and counting votes. Advanced encryption techniques, tamper detection mechanism, and rigorous testing are employed to safeguard the integrity of the voting process. Additionally EVMs often undergo extensive validation and certification processes to meet regulatory standards and ensure trustworthiness in democratic elections.
Prepare a project report on the topic **'Elect your leader with: The power of EVMs"** which aims to provide a comprehensive understanding of how EVMs function and their role in modernizing the electoral process. Support your project report with the pictures from the current lok sabha elections. Compile the investigatory project according to the prescribed format:

- Introduction on EVM
- History of EVM
- Components of an EVM - Control unit
                               Ballot unit
                               VVPAT system
- Working mechanism of an EVM- Set up
                                       Block diagram
                                       Voting process
                                       Security features
                                        Post voting
                                        Voter verified paper audit trail (vvpat)
- Advantages of using EVMs
- Disadvantages and criticism
- Suggestions for improving EVM
- Case studies
- Conclusion

➢ SOCIAL SCIENCE (087)

1- Project report on current Lok Sabha election.
Compare Uttrakhand and Assam, where the Lok Sabha election took place and identify/gather information about the following:
- Parties
- Number of Constituencies
- Number of Electors
- Number of voters
- Name of Candidates   (after winning)

2- Imagine you are the young leader of a rising political party, develop a manifesto for your party that influences the voters.

➢ ARTIFICIAL INTELLIGENCE (417)

An AI project on the Lok Sabha elections could encompass various aspects such as predicting election outcomes, analyzing sentiment around political parties and candidates, or understanding voter behavior. Here's a structured approach to developing such a project:

1. Define the Objectives
   Clearly outline the goals of your AI project. Examples must include?
 - Predicting the winners in different constituencies.
 - Analyzing social media sentiment towards candidates.
 - Understanding demographic influences on voting patterns.

2. Data Collection
   Gather data from multiple sources. Essential datasets must include:
   - Historical Election Data: Previous election results, voting patterns.
   - Demographic Data: Information on the electorate like age, gender, income levels, etc.
   - Social Media Data: Tweets, Facebook posts, and other social media activity related to elections.
   - News Articles and Speeches: public statements, debates, and news coverage.
   - Poll Data: opinion polls and surveys conducted before election.

GUIDELINES FOR HOLIDAY HOMEWORK

- Make your project more informative and creative including all the activities.
- All the activities should be done on A4 sheets. (white/ coloured)
- The homework of all the subjects will be compiled in a string file.
- Cover page, acknowledgement and index should be maintained for the project.
- Do your homework independently. Parents can act as guides and facilitators.

The work will be evaluated for all the subjects on the following parameters.
- Idea and Content
- Information
- Presentation
- Innovation
- Creativity